

**Amendment to the Claims:**

1-8. (Cancelled)

9. (Currently Amended) [[The]] A physiological monitoring system of claim 1, which comprises:

at least one sensor for detecting a biological signal, representative of a physiological characteristic of a monitor-wearing patient and generating an electrical signal representative of the biological signal;

at least one sensor for detecting physical activity of the patient and generating an electrical signal, representative of physical activity;

processing means, coupled to said sensors for processing said electrical signals;

an activity threshold detector coupled to said processing means for receiving said electrical signals representative of physical activity;

a user interface for communicating information about the detected biological signal to the patient;

means for adaptively controlling the communication of the information about the detected biological signal in accordance with a level of the sensed physical activity as determined by said activity threshold detector;

wherein the at least one sensor comprises one or more electrocardiography electrodes that sense electrocardiography signals from the patient, whereby the electrocardiography and physical activity sensors generate electrical signals representative of each respective biological signal;

wherein the processing means includes an arrhythmia threshold detector coupled to the electrocardiography sensor for receiving said electrical signals representative of the electrocardiography signals and determining whether the signals are below or above a preset threshold;

wherein the activity threshold detector is coupled with the activity sensor for receiving said electrical signals representative of the activity level of the patient and determining whether the signals are below or above a predetermined threshold;

further including a system error detector for detecting system errors  
30 and determining if the detected error meets pre-determined criteria; and  
the means for adaptively controlling the communication includes a  
processor for controlling communication of system and biological signal information  
to the patient through the user interface based on (1) the level of the detected activity  
level relative to the predetermined threshold of said activity threshold detector, (2)  
35 the electrocardiography signals relative to the pre-set threshold of said arrhythmia  
threshold detector, and/or (3) the detected system errors relative to the predetermined  
criteria of the system error detector.

10. (Previously Presented) The system of claim 9, wherein the  
user interface comprises:

an alarm circuit comprising acoustic, tactile, or visual modes of  
communicating information to the patient, and which mode is determined by  
5 processor based on whether the signals from the respective detectors meet pre-  
determined thresholds.

11. (Previously Presented) The system of claim 9, wherein  
processor further comprises:

a calibration means for pre-setting the pre-set threshold of the  
arrhythmia threshold detector based on processing of electrocardiography signals  
5 from the patient to generate a baseline of electrocardiography information.

12. (Previously Presented) The system of claim 9, further  
including:

a memory component, the processor saving the electrocardiography  
signals into the memory component such that electrode signals below the pre-set  
5 threshold of the arrhythmia threshold detector are overwritten and  
electrocardiography signals above the pre-set threshold are saved in the memory  
component.

13. (Previously Presented) The system of claim 9, wherein the physical activity sensor comprises:

a transducer that detects chemical, electrical or mechanical characteristics of a monitor-wearing patient, representative of physical activity.

14. (Cancelled)

15. (Previously Presented) The system of claim 9, wherein the physical activity sensor is a passive transducer including a piezoelectric element.

16. (Cancelled)

17. (Previously Presented) The system of claim 9, further comprising:

means of wireless communication to an external system, for communication of information about the patient and system state to the patient or to others.

18-22. (Cancelled)

23. (Withdrawn) A method for communicating information about a patient during ambulatory monitoring of a physiological condition of the patient comprising the steps of:

attaching a physiological monitoring system to a patient;

detecting a selected physiological parameter of the patient;

sensing physical activity of the patient;

comparing the detected physiological parameter with a first pre-determined criteria to determine a physiological state of the patient reflecting an alarm condition;

generating an alert signal if the physiological condition of the patient reflects an alarm condition;

transmitting the alert signal to the patient, if the sensed physical activity of the patient indicates the patient is active and inhibiting the transmission of the alert signal if the sensed physical activity of the patient indicates that the patient is at rest.

24. (Cancelled)

25. (Currently Amended) ~~[[The]]~~  $\Delta$  physiological monitoring system of claim 24 further including:

at least one sensor for detecting a biological signal of a patient;

at least one sensor for detecting physical activity of the patient;

a processor coupled to the sensors, the processor including:

a biological signal processor for comparing the detected biological signal with biological signal threshold data and generating a biological signal alarm condition if the threshold is met, and

an activity threshold detector for processing the electrical signals representative of physical activity to determine physical activity of the patient.

an adaptive communication controller which determines alarm states based on the biological signal alarm condition and the determined physical activity;

a user interface controlled by the processor adaptive communication controller to produce at least two different types of alarms based on the biological signal alarm condition and the physical activity of the patient;

a system monitor which detects system malfunctions and classifies the detected malfunctions as critical or non-critical; and

wherein the user interface further bases the alarm type on the classification of any detected system malfunctions.

26. (Cancelled)

27. (Currently Amended) [[The]] A physiological monitoring system of claim 1 which comprises:
- at least one sensor for detecting a biological signal, representative of a physiological characteristic of a monitor-wearing patient and generating an electrical signal representative of the biological signal;
  - at least one sensor for detecting physical activity of the patient and generating an electrical signal, representative of physical activity;
  - processing means, coupled to said sensors for processing said electrical signals;
  - an activity threshold detector coupled to said processing means for receiving said electrical signals representative of physical activity, wherein the activity threshold detector determines when the patient is at rest or active; [[,]] and further including:
    - a user interface for communicating information about the detected biological signal to the patient;
    - means for adaptively controlling the communication of the information about the detected biological signal in accordance with a level of the sensed physical activity as determined by said activity threshold detector;
    - a means for determining when the information about the detected biological signal is urgent or non-urgent.

28. (Previously Presented) The system of claim 27 wherein the means for adaptively controlling the communication of the information further:
- in response to the information being urgent, communicates the information to the patient;
  - in response to the information being non-urgent and the patient being at rest, inhibits the communication of the information to the patient;
  - in response to the information being non-urgent and the patient being active, communicates the information to the patient.

29. (Previously Presented) The system of claim 27 further including:

a means for determining when the detected biological information signal is inconsistent with the level of physiological activity; and

5 wherein the means for adaptively controlling the information inhibits the communication of the information about the detailed biological signal when the means for determining when the detected biological information signal is inconsistent with the level of physiological activity determines that biological information signal is inconsistent with the level of physiological activity.

30. (Previously Presented) The system of claim 9 wherein the activity threshold detector determines when the patient is at least at rest and active, and wherein the processor determines when the information is at least urgent and non-urgent; and

5 wherein the processor adaptively communicates and inhibits the communication of the information in accordance with whether the patient is at rest or active and whether the information is urgent or non-urgent.

31. (Withdrawn) The method of claim 23 further including:  
in response to the sensed physical activity of the patient indicating that the patient is unconscious, transmitting the alert signal to a third party responder to supply emergency help.

32. (Withdrawn) The method of claim 23 further including:  
comparing the detected physiological parameter with a second predetermined criteria indicative of a life-threatening physiological state;

5 in response to determining that the detected physiological parameter is indicative of a life-threatening physiological state, transmitting the alert signal to the patient regardless of the sensed physiological activity of the patient.

33. (Withdrawn) The method of claim 32 further including:  
in response to determining from the sensed physical activity that the  
patient is engaged in normal waking activity inconsistent with the life-threatening  
physiological state, inhibiting the transmission of the alert signal to the patient.

34. (Previously Presented) An apparatus for communicating  
information about a patient during ambulatory monitoring of a physiological  
condition of the patient comprising:

- a physiological monitoring system for attachment to a patient;
- 5 means for detecting a selected physiological parameter of the patient  
with the physiological monitoring system;
- means for sensing physical activity of the patient;
- means for comparing the detected physiological parameter with a first  
pre-determined criteria to determine a physiological state of the patient reflecting an  
10 alarm condition;
- means for generating an alert signal if the physiological condition of  
the patient reflects an alarm condition;
- means for transmitting the alert signal to the patient if the sensed  
physical activity of the patient indicates the patient is active and inhibiting the  
15 transmission of the alert signal if the sensed physical activity of the patient indicates  
that the patient is at rest.